

## VPU PV I+II 3 1000

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com



### General ordering data

Version	Surge voltage arrester, Low voltage, Surge protection I / II
Order No.	<a href="#">2530610000</a>
Type	VPU PV I+II 3 1000
GTIN (EAN)	4050118540826
Qty.	1 items

Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E354261

Dimensions and weights

Depth	86 mm	Depth (inches)	3.3858 inch
Height	96 mm	Height (inches)	3.7795 inch
Width	54 mm	Width (inches)	2.126 inch
Mounting dimension - height	85 mm	Net weight	470 g

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...85 °C
Humidity	5 - 95% rel. humidity		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Rated data UL

Ambient temperature (operational), max. 85 °C	Rated Voltage UN	1100 V
SCCR	In	20 kA
Category	SPD TYPE 1CA	Ambient temperature (operational), min. -40 °C
Certificate No. (cURus)	E354261	VPR ( DC+/DC-) 2500 V
VPR ( DC-/G)	2500 V	Voltage type DC

General data

Optical function display	green = OK; red = arrester is defective - replace	Version	Surge protection I / II
Design	Installation housing; 3TE, Insta IP 20	UL 94 flammability rating	V-0
Colour	black, orange	Protection degree	IP20
Mounting rail	TS 35	Operating altitude	≤ 4000 m

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2
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Photovoltaic technical data

Standards	EN 61643-31, EN 50539-11, UL 1449	Lightning test current Iimp (10/350 μs)	6.25 kA
Protection level Up (+/-, -/PE, +/PE)	≤ 3.8 kV	Operating height in ungrounded PV system	≤ 4000 m
Short-circuit current ISCPV	11000 A	Total discharge current Itotal ( 8/20μs)	50 kA
Discharge current In (8/20 μs)	20 kA	Requirements class	Type I/II

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## Technical data

Operating height in the grounded PV system	≤ 2000 m	Total discharge current I <sub>total</sub> (10/350µs)	12.5 kA
PV system voltage, max. U <sub>cpv</sub>	1100 V		

### Rated data IEC / EN

Number of poles	3	Leakage current at U <sub>n</sub>	30 µA
Signalling contact	No	Rated voltage (DC)	1000 V
Voltage type	DC	Response time / fallback time	≤ 25 ns
Standards	EN 61643-31, EN 50539-11, UL 1449	Lightning test current I <sub>imp</sub> (10/350 µs)	6.25 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Discharge current I <sub>max</sub> (8/20µs) wire-PE30 kA	
SPD type	T1, T2	Integrated back-up fuse	No

### Connection data

Stripping length	18 mm	Type of connection	Screw connection
Stripping length, rated connection	18 mm	Tightening torque, min.	3 Nm
Tightening torque, max.	4.5 Nm	Clamping range, rated connection	6 mm <sup>2</sup>
Clamping range, min.	1.5 mm <sup>2</sup>	Clamping range, max.	35 mm <sup>2</sup>
Wire cross-section, solid, min.	1.5 mm <sup>2</sup>	Wire cross-section, solid, max.	35 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	1.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	35 mm <sup>2</sup>
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	35 mm <sup>2</sup>

### Electrical data

Voltage type	DC
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### General data

Number of poles	3	Protection degree	IP20
Colour	black, orange		

### Guarantee

Time interval	5 years
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### Classifications

ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-14-03
ECLASS 15.0	27-17-14-03		

**Electric symbol**



Circuit diagram